

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P157773

Luminaire Tested: **VST-F03-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157773
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F03-LED-E-U-5XQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6610.3 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U1 - G2

Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



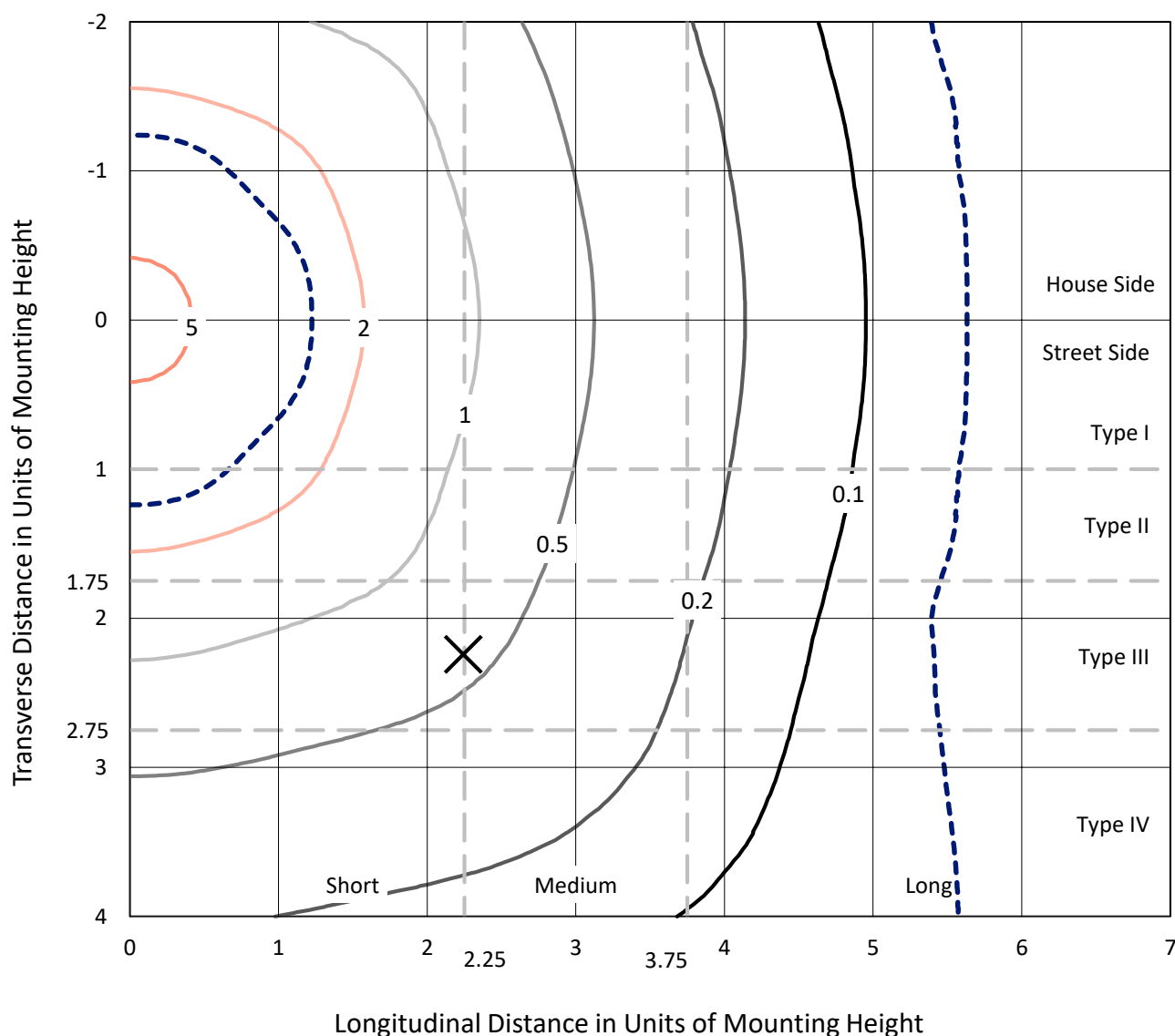
REPORT NUMBER: P157773

CATALOG NUMBER: VST-F03-LED-E-U-5XQ-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

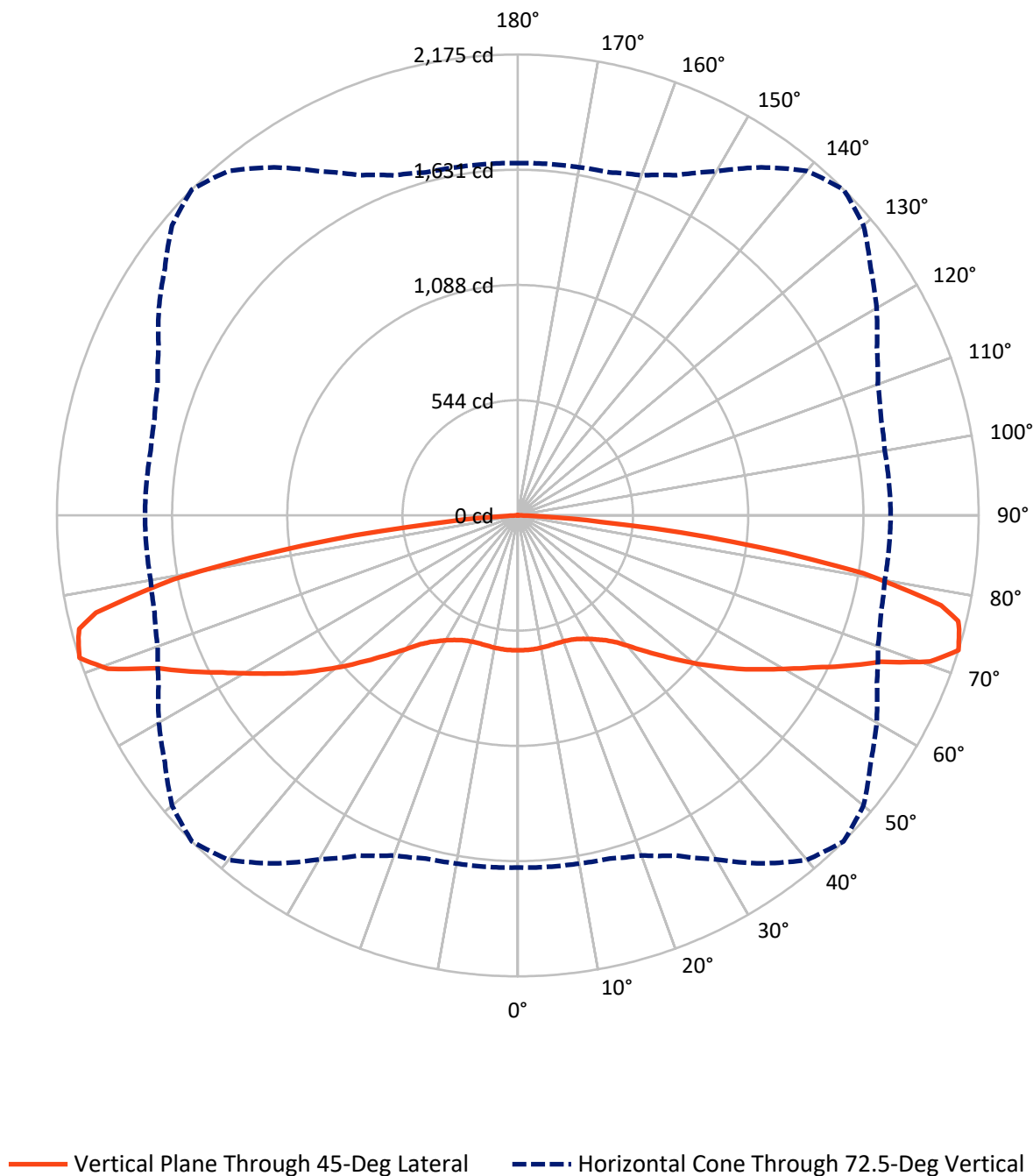


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157773

CATALOG NUMBER: VST-F03-LED-E-U-5XQ-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P157773

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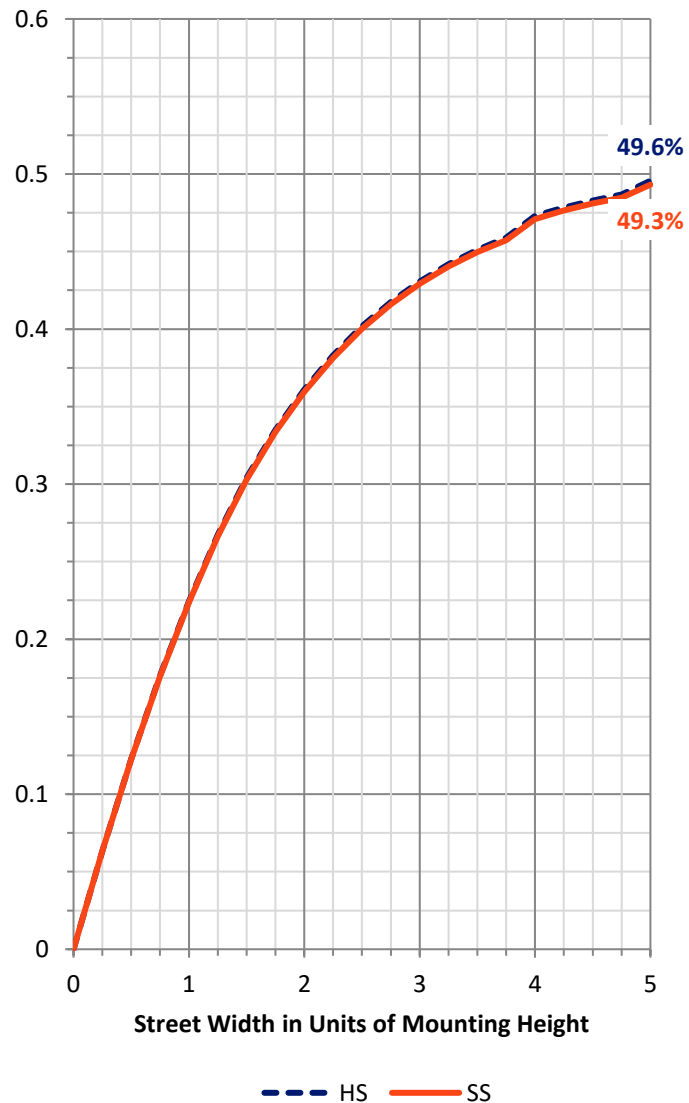
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3303.6	1.5	3305.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3303.6	1.5	3305.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	6607.2	3.1	6610.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	0.9
10°-20°	179.3	2.7
20°-30°	299.8	4.5
30°-40°	455.7	6.9
40°-50°	721.8	10.9
50°-60°	1104.0	16.7
60°-70°	1580.1	23.9
70°-80°	1807.9	27.4
80°-90°	397.9	6.0
90°-100°	0.3	0.0
100°-110°	0.7	0.0
110°-120°	0.5	0.0
120°-130°	0.5	0.0
130°-140°	0.5	0.0
140°-150°	0.4	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6607.2	100.0
0°-180°	6610.3	100.0

Coefficient of Utilization



REPORT NUMBER: P157773

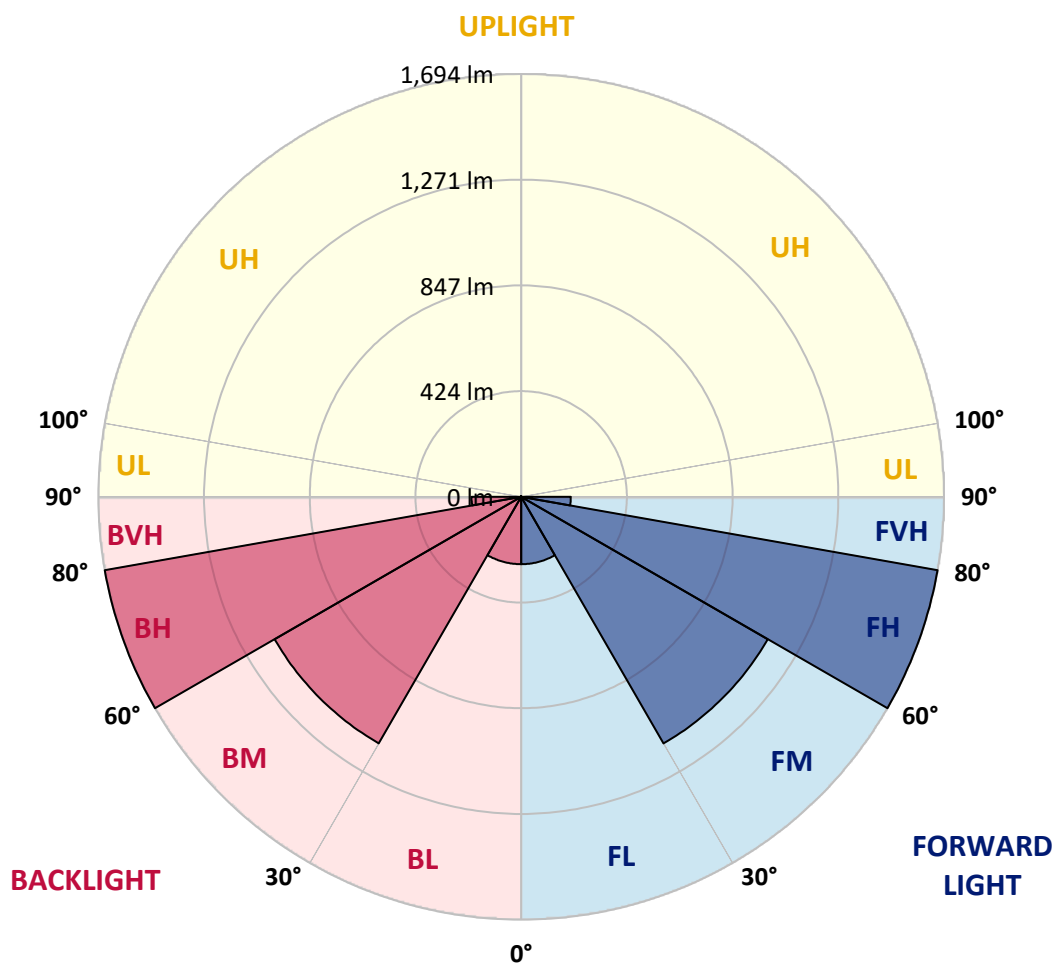
CATALOG NUMBER: VST-F03-LED-E-U-5XQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.9	4.1			
FM	(30°-60°)	1140.7	17.3			
FH	(60°-80°)	1694.0	25.6			G1/1800
FVH	(80°-90°)	199.0	3.0			G2/225
BL	(0°-30°)	269.9	4.1	B1/500		
BM	(30°-60°)	1140.7	17.3	B2/2500		
BH	(60°-80°)	1694.0	25.6	B3/2500		G1/1800
BVH	(80°-90°)	199.0	3.0			G2/225
UL	(90°-100°)	0.3	0.0		U1/10	
UH	(100°-180°)	1.5	0.0		U1/10	

BUG Rating: B3-U1-G2

Type V Short





REPORT NUMBER: P157773

CATALOG NUMBER: VST-F03-LED-E-U-5XQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2
2.5°	636.7	635.8	636.2	637.1	636.7	636.7	636.2	636.2	637.1	636.2	636.7
5°	637.1	636.2	636.7	637.1	636.7	637.1	636.7	636.7	636.7	636.2	637.1
7.5°	635.4	635.4	635.8	635.8	635.4	635.8	635.8	635.8	635.4	635.4	636.2
10°	634.6	634.1	634.1	634.6	634.1	634.1	634.6	634.6	633.8	633.8	634.6
12.5°	633.4	632.9	632.9	632.9	632.5	632.5	632.9	632.9	632.5	632.1	633.4
15°	632.5	632.1	632.1	632.1	631.3	631.7	631.7	631.7	631.3	630.8	632.1
17.5°	632.1	631.7	631.7	631.7	631.3	631.3	631.3	631.3	630.8	630.8	631.7
20°	632.9	632.9	632.9	632.9	632.5	632.5	632.5	632.9	632.9	632.9	633.8
22.5°	635.0	635.0	635.4	635.8	635.8	636.7	637.1	637.5	637.5	637.9	638.8
25°	640.4	640.4	640.9	641.3	642.5	643.4	645.1	645.9	646.3	646.3	646.7
27.5°	650.5	650.9	651.7	652.6	654.2	655.5	657.2	658.9	659.3	659.6	660.1
30°	663.0	663.4	665.1	665.9	668.0	670.6	672.6	674.3	675.5	676.4	676.0
32.5°	681.0	681.8	683.9	685.1	688.1	690.6	693.5	696.1	697.3	698.5	698.1
35°	706.1	708.2	710.3	711.5	714.4	716.5	720.3	722.8	725.3	724.4	724.9
37.5°	743.3	745.0	745.4	746.2	749.2	750.8	755.0	758.3	759.6	760.4	760.9
40°	793.4	793.4	795.5	793.9	797.6	798.1	803.0	807.7	808.9	812.3	809.8
42.5°	851.9	851.6	852.8	851.6	851.6	855.7	859.9	868.3	869.1	873.3	870.8
45°	915.5	915.5	914.3	914.7	915.5	920.1	925.1	934.3	938.5	941.0	939.4
47.5°	984.5	982.8	982.4	982.0	984.5	989.5	997.0	1005.8	1016.3	1017.1	1016.3
50°	1054.3	1053.9	1051.0	1053.5	1055.2	1057.6	1071.8	1083.5	1094.5	1101.1	1099.0
52.5°	1127.9	1124.1	1124.1	1124.1	1128.3	1136.2	1148.8	1164.7	1179.3	1186.4	1185.1
55°	1202.3	1201.0	1197.3	1195.6	1201.0	1212.3	1230.3	1249.5	1268.8	1279.6	1275.4
57.5°	1270.4	1268.3	1268.8	1269.2	1275.4	1290.5	1311.4	1336.9	1357.8	1369.5	1366.6
60°	1324.0	1321.4	1326.0	1327.3	1338.5	1363.7	1397.1	1429.3	1456.9	1468.6	1464.0
62.5°	1384.6	1382.9	1385.8	1385.4	1397.5	1425.5	1470.2	1521.7	1563.5	1578.5	1571.8
65°	1482.4	1477.4	1476.1	1471.5	1479.4	1501.2	1545.9	1605.7	1672.6	1711.0	1701.8
67.5°	1599.4	1598.2	1594.0	1591.5	1594.4	1621.6	1664.6	1722.4	1790.5	1843.6	1855.3
70°	1676.8	1678.4	1682.6	1688.9	1713.1	1765.8	1844.4	1931.8	2025.4	2065.1	2058.0
72.5°	1662.1	1664.6	1668.0	1675.9	1707.7	1770.8	1874.5	2004.9	2122.4	2175.1	2129.9
75°	1590.7	1592.8	1600.3	1612.4	1651.3	1727.8	1839.4	1977.8	2099.0	2151.7	2104.4
76°	1524.6	1531.3	1545.1	1559.3	1606.1	1689.3	1808.5	1956.0	2084.3	2137.9	2092.3
77.5°	1375.0	1380.8	1392.1	1416.7	1469.8	1576.4	1715.6	1860.7	1994.5	2042.5	2004.1
80°	1034.6	1039.7	1050.1	1079.8	1125.8	1191.8	1299.7	1441.4	1588.1	1651.3	1626.2
82.5°	436.9	442.7	484.1	527.2	577.7	649.2	719.5	844.9	952.7	1024.6	986.2
85°	48.1	59.3	73.1	99.5	122.0	162.6	202.3	278.4	352.0	396.7	350.8
87.5°	8.3	9.6	13.8	17.6	19.6	22.6	27.2	38.0	51.8	44.8	45.5
90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.8	0.8	0.8	0.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
97.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
100°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
102.5°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8
105°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
107.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.4	0.4	0.4	0.8	0.4



REPORT NUMBER: P157773

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
112.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
115°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
117.5°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
120°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
122.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4
125°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4
127.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4
130°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4
132.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4
135°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4
137.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4
140°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4
142.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4
145°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.4
147.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4
150°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.0	0.0	0.0
152.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.0
155°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.4
157.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0
165°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157773

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2
2.5°	636.2	636.2	637.1	636.7	636.7	637.1	637.9	637.5
5°	636.7	637.1	636.2	636.7	637.1	637.1	637.5	637.1
7.5°	635.8	635.8	635.8	636.2	636.7	636.2	636.7	636.7
10°	634.1	634.6	634.1	635.0	635.4	635.4	635.8	635.8
12.5°	632.9	632.9	632.9	633.8	634.1	634.1	634.6	634.1
15°	631.7	631.7	631.3	632.1	632.9	632.9	633.4	633.4
17.5°	631.3	631.3	630.8	631.7	632.5	632.5	632.9	632.9
20°	632.5	632.9	632.1	632.9	633.8	634.1	634.1	634.1
22.5°	637.5	637.1	635.8	636.2	636.7	636.7	636.7	636.7
25°	645.1	644.2	643.0	642.5	642.1	641.7	641.7	641.7
27.5°	658.0	656.8	654.7	654.2	653.8	653.0	653.0	653.0
30°	673.4	671.8	669.3	668.5	667.2	666.4	665.9	665.5
32.5°	695.6	692.3	689.3	687.2	686.0	683.5	683.1	682.3
35°	721.1	718.6	714.4	713.2	711.1	709.9	709.4	707.3
37.5°	756.2	753.3	749.5	748.7	748.3	747.1	747.1	746.6
40°	805.1	802.2	798.9	795.5	796.4	796.8	796.8	795.1
42.5°	864.9	860.3	853.6	855.7	854.5	852.8	856.1	854.0
45°	933.1	926.8	921.8	919.7	919.7	917.6	920.9	920.9
47.5°	1008.7	998.7	989.5	989.9	986.6	987.4	989.5	992.5
50°	1088.6	1075.2	1066.4	1062.2	1058.9	1060.1	1063.9	1064.8
52.5°	1171.4	1155.1	1143.4	1137.1	1132.9	1134.5	1137.5	1140.0
55°	1257.5	1239.5	1222.0	1215.2	1210.2	1213.6	1214.0	1217.3
57.5°	1347.4	1322.7	1302.2	1292.2	1287.1	1290.5	1293.0	1296.4
60°	1438.1	1409.6	1385.4	1373.7	1366.6	1371.2	1377.0	1378.7
62.5°	1543.4	1504.1	1477.0	1460.2	1456.9	1461.5	1463.2	1468.1
65°	1668.0	1620.7	1583.1	1562.6	1561.8	1564.3	1568.1	1569.3
67.5°	1810.1	1757.5	1706.9	1686.4	1678.4	1685.9	1689.7	1694.8
70°	2010.8	1938.5	1865.3	1819.7	1800.5	1794.7	1796.3	1801.7
72.5°	2033.3	1955.6	1870.3	1808.5	1774.6	1759.1	1758.7	1759.6
75°	1984.0	1859.9	1799.6	1728.6	1680.5	1655.5	1652.1	1651.7
76°	1959.4	1812.6	1725.7	1669.3	1611.5	1586.0	1582.3	1580.2
77.5°	1855.3	1697.6	1566.8	1532.5	1477.4	1445.2	1451.9	1446.4
80°	1487.4	1331.0	1207.7	1111.1	1114.1	1090.7	1081.1	1078.1
82.5°	876.7	748.3	612.0	532.1	456.1	436.0	375.4	361.6
85°	280.1	198.5	120.4	87.4	59.3	49.7	38.9	35.5
87.5°	37.2	29.3	23.8	23.0	20.9	18.0	11.7	8.3
90°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
97.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
100°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4
102.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4
105°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
107.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
112.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
115°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
117.5°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
120°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
122.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
125°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
127.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
130°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
132.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
135°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
137.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
140°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
142.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
145°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
147.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
150°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
152.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
155°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
157.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
160°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
162.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
165°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)